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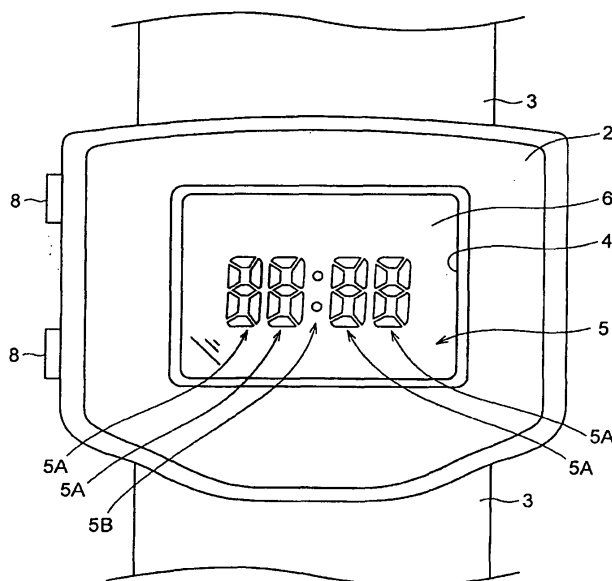
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(54) **Electrophoretic display device, drive device, and drive method**

(57) A display device comprising an electrophoretic display panel comprising two types of electrophoretic particles of different color and polarity between electrodes, and a drive unit for supplying a drive signal to apply a drive voltage between the electrodes to switch a display color of the electrophoretic display panel between

the colors of the electrophoretic particles. The drive unit supplies a drive signal of which the drive power is changed according to the electrophoretic characteristics when the display color of the electrophoretic display panel is changed in order to change the display color of the electrophoretic display panel.



**FIG. 1**



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 06 01 9193

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 03/044765 A2 (E INK CORP [US]) 30 May 2003 (2003-05-30)  * page 1, lines 8-12 * * page 6, line 9 - page 7, line 12 * * page 16, line 20 - page 19, line 26 * * page 20, lines 10-13 * -----	1-5, 10-14, 19,20	INV. G09G3/34 G09G3/16
X	WO 2005/019912 A2 (KONINKL PHILIPS ELECTRONICS NV [NL]; PHILIPS CORP [US]; ZHOU GUOFU [NL] 3 March 2005 (2005-03-03) * abstract *	1-5, 10-14, 19,20	
A	US 6 504 524 B1 (GATES HOLLY [US] ET AL) 7 January 2003 (2003-01-07) * figure 1 *	1-20	
A	WO 03/075086 A2 (KONINKL PHILIPS ELECTRONICS NV [NL]; JOHNSON MARK T [NL]; ZHOU GUO-FU) 12 September 2003 (2003-09-12) * abstract *	1-20	
			TECHNICAL FIELDS SEARCHED (IPC)
			G09G
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 27 April 2007	Examiner VAN WESENBEECK, R
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.82 (P04C01)

**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-5,10-14,19,20

changing the drive power according to the continuous display  
time

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2. claims: 6-9,15-18

changing the drive power according to the area of a display  
color

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 01 9193

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on  
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27-04-2007

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